

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: Unassigned
Examiner: Unassigned
Confirmation No.: Unassigned
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any appropriate fees under e required by this paper, and to credit 2-4800. This paper is submitted in
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NGERSOLL AND ROONEY PC
her L. North tion No. 50,433
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P.O. Box 1404 Alexandria, VA 22313-1404 1737 King Street, Suite 500 Alexandria, VA 22314-2727 703 836 6620

Buchanan Ingersoll & Rooney PC
Attorneys & Government Relations Professionals

Attorney's Docket No. <u>1034136-000040</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Are F	Patent Application of	
Zhong	xin Ge et al.	Group Art Unit: Unassigned
Applic	ation No.: 10/594,429)	Examiner: Unassigned
Filed:	September 26, 2006	Confirmation No.: Unassigned
For:	POLYHYDROXY) HYDROGENSULFATED TRIMETALLIC) NITRIDE ENDOHEDRAL) METALLOFULLERENES)	

SECOND INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. However, copies of the listed U.S. patents and U.S. patent application publications are not enclosed since it is no longer required according to the July 11, 2003 waiver of the requirement for copies of cited U.S. patents and U.S. patent application publications in national patent applications filed after June 30, 2003 and international applications entering the national stage under 35 U.S.C. § 371 after June 30, 2003.

U.S. PATENT DOCUMENTS

- 1. KATORI et al., U.S. Patent Publication No. 2003/0031917 A1, published on February 13, 2003.
 - 2. YAMAMOTO et al., U.S. Patent No. 6,432,887 B1, issued on August 13, 2002.
 - 3. WHEWELL, U.S. Patent No. 5,269,953, issued on December 14, 1993.
 - 4. ATA et al., U.S. Patent No. 6,815,067 B2, issued on November 9, 2004.
- 5. KAJIURA et al., U.S. Patent Publication No. 2003/0015414 A1, published on January 23, 2003.
- 6. TAKIKAWA et al, U.S. Patent Publication No. 2002/0061638 A1, published on May 23, 2002.
- 7. ANAZAWA et al., U.S. Patent Publication No. 2001/0050219 A1, published on December 13, 2001.

- 8. ZETTL et al., U.S. Patent No. 6,063,243, issued on May 16, 2000.
- 9. CRESPI et al., U.S. Patent Publication No. 2005/0067349 A1, published on March 31, 2005.
 - 10. HINOKUMA et al., U.S. Patent No. 6,495,290, issued on December 17, 2002.

NON-PATENT LITERATURE DOCUMENTS

- 1. IEZZI, ERICK B. ET AL., "A Symmetric Derivative of the Trimetallic Nitride Endohedral Metallofullerene, Sc₃N@C₈₀," J.AM.CHEM.SOC., 2002, pp. 524-525, Vol. 124, No. 4, American Chemical Society.
- 2. KRATSCHMER, W. ET AL., "Solid C₆₀: a new form of carbon," NATURE, 9/27/90, pp. 354-358, Vol. 347, Nature Publishing Group.
- 3. OLMSTEAD, MARILYN M. ET AL., "Isolation and Crystallographic Characterization of ErSc₂N@C₈₀: an Endohedral Fullerene Which Crystallizes with Remarkable Internal Order," J.AM.CHEM.SOC., 2000, pp. 12220-12226, Vol. 122, No. 49, American Chemical Society.
- 4. STONE, A.J. ET AL., "Theoretical Studies of Icosahedral C₆₀ and Some Related Species," Chem. Physics Ltrs., 8/8/86, pp. 501-503, Vol. 128, No. 5,6, Elsevier Science Publishers B.V.
- 5. TRULOVE, "Filled buckyballs diamonds from soot," article from website http://www.research.vt.edu/resmag/2002winter/buckyballs.html, 9 March 2002 (09.03.2002), available at www.archive.org. (entire document).
- 6. NAGASE et al., Chapter 9: Endohedral metallofullerenes: theory, electrochemistry, and chemical reactions, of Fullerenes: Chemistry, Physics and Technology (Kadish and Ruoff, eds.), 2000, John Wiley and Sons, pp. 395-429.
- 7. JOURNET et al., "Large-scale production of single-walled carbon nanotubes by the electric-arc technique," *Nature*, 1997, vol. 388, pp. 756-758, American Association for the Advancement of Science, Washington, D.C.
- 8. SAITO et al., "Single-Layered Carbon Nanotubes Synthesized by Catalytic Assistance of Rare-Earths in a Carbon Arc," *J. Phys. Chem.*, 1995, vol. 99, pp. 16076-16079, American Chemical Society, Washington, D.C.
- 9. WILSON et al., "Advanced materials: fluorous fullerenes and nanotubes," *Tetrahedron*, 2002, vol. 58, pp. 4041-4047, Elsevier Science Ltd.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever

SECOND Information Disclosure Statement Application No. <u>10/594,429</u> Attorney's Docket No. <u>1034136-000040</u> Page 3

is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

Date: April 9, 2007

By: _

Christopher L. North

Registration No. 50,433

P.O. Box 1404 Alexandria, VA 22313-1404 703 836 6620 Substitute for form 1449/PTO & 1449B/PTO

SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

	Complete if Known
Application Number	10/594,429
Filing Date	September 26, 2006
First Named Inventor	GE et al.
Examiner Name	Unassigned
Attorney Docket No.	1034136-00040

Sheet 1 of 2

U.S. PATENT DOCUMENTS				
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	2003/0031917	A1	Katori et al.	02-13-2003
_	6,432,887	B1	Yamamoto et al.	08-13-2002
	5,269,953		Whewell	12-14-1993
	6,815,067	Α	Ata et al.	11-09-2004
	2003/0015414	A1	Kajiura et al.	01-23-2003
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	2005/0067349	A1	Crespi et al.	03-31-2005
	6,495,290	B1	Hinokuma et al.	12-17-2002

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Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec

	NON-PATENT LITERATURE DOCUMENTS
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	IEZZI, ERICK B. ET AL., "A Symmetric Derivative of the Trimetallic Nitride Endohedral Metallofullerene,
	Sc ₃ N@C ₈₀ ," J.AM.CHEM.SOC., 2002, pp. 524-525, Vol. 124, No. 4, American Chemical Society
	KRATSCHMER, W. ET AL., "Solid C ₆₀ : a new form of carbon," NATURE, 9/27/90, pp. 354-358, Vol. 347,
	Nature Publishing Group
	OLMSTEAD, MARILYN M. ET AL., "Isolation and Crystallographic Characterization of ErSc₂N@C ₈₀ : an Endohedral Fullerene Which Crystallizes with Remarkable Internal Order," J.AM.CHEM.SOC., 2000, pp. 12220-12226, Vol. 122, No. 49, AmericanChemical Society
	STONE, A.J. ET AL., "Theoretical Studies of Icosahedral C ₆₀ and Some Related Species," Chem. Physics Ltrs., 8/8/86, pp. 501-503, Vol. 128, No. 5,6, Elsevier Science Publishers B.V.
	TRULOVE, "Filled buckyballs - diamonds from soot," article from website
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	available at www.archive.org. (entire document).
	NAGASE et al., Chapter 9: Endohedral metallofullerenes: theory, electrochemistry, and chemical reactions, of Fullerenes: Chemistry, Physics and Technology (Kadish and Ruoff, eds.), 2000, John Wiley and Sons, pp. 395-429.
	JOURNET et al., "Large-scale production of single-walled carbon nanotubes by the electric-arc
	technique," Nature, 1997, vol. 388, pp. 756-758, American Association for the Advancement of
	Science, Washington, D.C.
	SAITO et al., "Single-Layered Carbon Nanotubes Synthesized by Catalytic Assistance of Rare- Earths in a Carbon Arc," <i>J. Phys. Chem.</i> , 1995, vol. 99, pp. 16076-16079, American Chemical Society, Washington, D.C.

Examiner	Date	
Signature	Considered	

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SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of	2

	Complete if Known
Application Number	10/594,429
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First Named Inventor	GE et al.
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	NON-PATENT LITERATURE DOCUMENTS
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	WILSON et al., "Advanced materials: fluorous fullerenes and nanotubes," Tetrahedron, 2002, vol.
	58, pp. 4041-4047, Elsevier Science Ltd.

Examiner	Date	
Signature	Considered	ı